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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,233	07/24/2003	Kazuyoshi Ueno	NEC 1030 DIV	1290
27667 75	90 07/11/2006		EXAMINER	
HAYES, SOLOWAY P.C. 3450 E. SUNRISE DRIVE, SUITE 140			GUERRERO, MARIA F	
TUCSON, AZ	•		ART UNIT	PAPER NUMBER
,			2822	
			DATE MAILED: 07/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/626,233	UENO, KAZUYOSHI			
Office Action Summary	Examiner	Art Unit			
	Maria Guerrero	2822			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
<ol> <li>Responsive to communication(s) filed on <u>25 April 2006</u>.</li> <li>This action is FINAL. 2b) This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</li> </ol>					
Disposition of Claims					
4)  Claim(s) 1-6,11,13,14,18 and 20-31 is/are pending in the application. 4a) Of the above claim(s) 21-31 is/are withdrawn from consideration.  5)  Claim(s) is/are allowed. 6)  Claim(s) 1-3 is/are rejected.  7)  Claim(s) 4-6,11,13,14,18 and 20 is/are objected to. 8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a)  accepted or b)  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152) Cother:					

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## **DETAILED ACTION**

1. This Office Action in response to the amendment filed April 25, 2006.

## **Status of Claims**

2. Claims 7-10, 12, 15-17, 19, and 32 are canceled. Claims 1-6, 11, 13, 14, 18, 20-31 are pending.

# **Priority**

- 3. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/273,627, filed on March 23, 1999. *Election/Restrictions*
- 4. Claims 21-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on July 15, 2005.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yuuki et al. (US 5,776,254) (of record) in view of Moran et al. (US 5,169,676).

Yuki et al. teaches a semiconductor device manufacturing apparatus having a vaporizer and an orienting element for orienting the precursor molecules in the direction of the electrical field (Fig.1-5, 7-10, col. 7, lines 9-30, col. 8, lines 55-67, col. 9, lines 20-30, col. 15, lines 1-67). Yuki et al. also shows the apparatus using a thermal CVD reaction to deposit a film onto a substrate, the vaporizer for vaporizing a raw material to form a vapor phase deposition material (col. 15, lines 1-67).

Yuki et al. is silent about the orienting element comprising a power supply for supplying a d.c. electrical potential. However, Moran et al. shows the power supply for supplying a d.c. electrical potential to the substrate(Fig. 2, col. 7, lines 45-67).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Yuki et al. reference by including the power supply suggested by Moran et al. in order to obtain an apparatus that would promote growth of crystals in the layers (col. 7, lines 45-67).

6. Claims 4-6, 11, 13-14, 18 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Terminal Disclaimer

7. The terminal disclaimer filed on April 25, 2006 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US patent No. 6,670,270 has been reviewed and is accepted. The terminal disclaimer has been recorded.

# Response to Arguments

8. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Guerrero whose telephone number is 571-272-1837.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 10, 2006

MARIA F. GUERRERO PRIMARY EXAMINER